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Wright State University College of Engineering and Computer Science

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BITs & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

March 1996

Wright State University Dayton, Ohio 45435

Vol. 12 No. 3

BITs & PCs is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of *BITs & PCs* is available on the World Wide Web at <http://www.cs.wright.edu/info/bits&pcs.html>. There are also links to past on-line issues and the college home page at <http://www.cs.wright.edu/>. Copies are also available in the college office, any department office, or the student club room. The next issue will be published the week of April 1, 1996. Submit items to be included in this issue to the College of Engineering and Computer Science, 405 Russ Engineering Center, call 513-873-5001, or E-Mail kthis@delta.cs.wright.edu by March 22, 1996.

Open House Draws Large Attendance

The College of Engineering and Computer Science Open House held on Monday, February 19th was a popular event with area students and their parents. The Open House, which was held in conjunction with National Engineer's Week, provided an excellent opportunity for potential WSU students and their parents to visit the Russ Engineering Center and learn more about engineering and computer science programs offered at Wright State.

The Open House began with most participants attending a presentation by three current freshmen entitled "Why I Chose WSU." Scott Baugh, Gregg Hawes,

and Donna O'Neal gave an informative presentation to a standing room only crowd and their efforts are greatly appreciated by the College.

Following the presentation, participants visited information tables arranged in the lobby by the College and its departments, as well as Admissions, Financial Aid, and Career Services. Participants were also able to take advantage of tours of the University campus and the Russ Engineering Center. Various laboratories in the Russ Engineering Center provided demonstrations of current projects by both faculty and current students. ✦

1996 TEAMS Competition Huge Success

Despite foggy morning driving conditions, the 1996 JETS/TEAMS competition progressed without a hitch on Thursday, February 22nd. All 35 participating schools managed to get their 42 teams to the WSU Student Union intact and on time.

The remainder of the day continued to progress with smooth efficiency. Area high schools continue to look forward to this annual event held in conjunction with National Engineers Week and participants had a great time while

working within their school teams to complete this rigorous test (see pictures on Page 5).

This year's competition progressed so smoothly that the "Crisis Center" staff were almost bored. Credit for this seamless operation is attributed to the efficiency and hard work of Mrs. Teri Shepherd and her montage of dedicated assistants in the College of Engineering and Computer Science.

Kudos to Teri and crew!

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SCHOLARSHIPS AND FELLOWSHIPS

REHABILITATION ENGINEERING

Applications are now being accepted for Graduate Fellowships in the Rehabilitation Engineering Training Program. These one-year fellowships include a stipend plus tuition and extend from September through August.

Fellowship recipients are expected to serve two years employment with an appropriate disability service agency for each year of academic support they receive.

Direct applications and questions directed to Dr. Blair A. Rowley, 513/873-5044, browley@delta.cs.wright.edu, <http://www.cs.wright.edu/bhe/rehabengr/rehabeng.html>.

Deadline is March 15, 1996.



SCHOLARSHIPS AVAILABLE APPLY NOW

The College of Engineering and Computer Science Scholarship Committee awarded over \$60,000 in scholarships to eligible continuing students for the 1995-96 academic year. Over 50 scholarships ranging from \$220 to \$4,000 were awarded.

You, too, may be eligible for continuing student scholarships, but you first **NEED TO APPLY!** Application forms are in the Financial Aid Office, located in room 136 Student Union. The deadline for scholarship applications is April 1, 1996.

APPLY NOW

DEPARTMENT OF ENERGY

The U.S. Department of Energy is offering off-campus academic-term research for undergraduates:

Opportunities include: waste technology, materials science, engineering, computer science, environmental science, energy systems, and related disciplines.

Program activities include: hands-on research, advanced instrumentation training, seminars/academic courses at DOE National Research Labs.

Application Deadline for Fall 1996 program is March 15, 1996.

Eligibility:

- Be enrolled in a U.S. college or university.
 - Have completed the sophomore year.
 - Be a U.S. citizen or permanent resident alien.
 - Have a GPA of 3.0 or higher.
- For information contact:

Science & Egr. Research Semester
P.O. Box 23575
Washington, D.C. 20026-3575



WOW SCHOLARSHIP

WSU Organization for Women is offering scholarships to non-traditional, part-time, female students who have a 3.0 or higher g.p.a.

Application forms are available in the Financial Aid Office. Questions may be directed to Lucy Feltz at 873-2616 or Leota Geigle at 873-3327.

Application deadline is March 31, 1996.

PALACE KNIGHT

The PALACE KNIGHT program is now taking applications.

This unique training and development program is designed to increase the number of civilian Ph.Ds to staff the laboratories of the U.S. Air Force. It is limited to U.S. citizens able to obtain security clearances.

Applicants should be within six months of receiving a B.S. and have a GPA of 3.25 or higher.

For more information and applications, contact Career Services, 126 Allyn Hall.



ROBERTS SCHOLARSHIP

Applications are being accepted for the Leonard P. Roberts Memorial Scholarship by the Dayton Foundation. These are one-year scholarships for full-time students in a four-year Miami Valley university.

Eligible candidates must be entering their junior or senior year and majoring in performing arts (dance, music, theater), business administration, or engineering.

Applications must be made by the Office of Financial Aid and candidates must have the recommendation of their university with the endorsement of the academic dean. Candidates must submit an application form, statement of goals and accomplishments, and three letters of recommendation.

Students should contact Judy Rose, Scholarship Coordinator, Office of Financial Aid, E136 Student Union, 513/873-5721.

Submission deadline for application material to the Office of Financial Aid is April 5, 1996.



Student Government Report

The great political wheels of Wright State Administration have tried to chug on without student input. However, we *have* spoken and they have listened.

Here is an update on what's going on in the college. First, the Board of Trustees approved the master plan under the condition that the contractor and the University look into providing parking facilities for the Russ Engineering Center.

Currently, the whole plan is on hold due to erosion problems. The parking lots are not causing the problems, but they might interfere with a proposed run-off area designated to keep the erosion problem to a minimum. Biologists, contractor, students, and faculty alike are investigating how to make a drainage facility that can handle the amount of water passing through the area. However, eliminating the parking lots won't change the current situation; therefore, it is likely that we will get to keep them. Thanks for all your input and support.

Next, beginning Spring Quarter, there will no longer be lab monitors in 152 Russ. The laser printers will be placed on a copy card system to discourage students from coming in from all around campus for free laser printing. The revenue generated from the copy card system will be designated for the maintenance and repair of the laser printers. In addition, a copy card regeneration machine will very likely be installed somewhere in the vicinity of 152 Russ. Staff will still be on call should printing or computer problems arise, but they will not be located in the labs.

CONGRATULATIONS

to Euvondia Barto—student government representative for the College of Engineering and Computer Science for 1996-97. Thanks to all the students who voted—we had a great turnout this year.

I am trying to negotiate with student government to alter the current method of representation of graduate students to allow them to be represented by the College representative instead of a Graduate School representative.

Finally, I am investigating the possibility of getting more lockers in the tunnel between the Russ Engineering Center and the Student Union and the possibility of keeping the doors between the two buildings open longer in the evenings.

Spring is an awesome quarter! Keep involved and let me know how I can best represent my constituents—YOU!

Be on the lookout for upcoming events like:

Paintball

May Daze, and

other fun WEC activities.

Upcoming events will be advertisted in the display cases located outside 163 Russ.

Good luck with your final exams and I'll see you next quarter.

Steve Poelzing

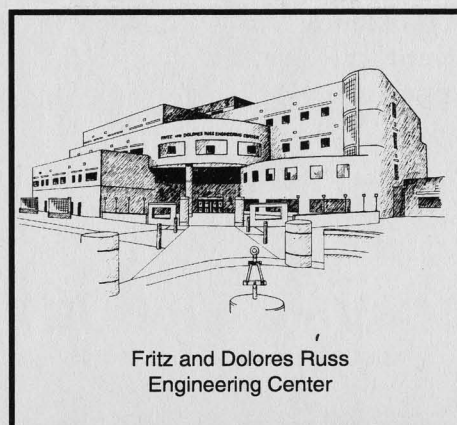
Your SGR Representative



The Dayton Area Graduate Studies Institute (DAGSI) offers competitive scholarships for graduate students in engineering at the Air Force Institute of Technology (AFIT), University of Dayton (UD), and Wright State University (WSU). Applications and information are available in room 405 RC, or you may contact:

DAGSI Corporate Office
3171 Research Blvd., Suite 109
Kettering, OH 45420
Telephone 513/259-1346
FAX: 513/259-1348

Application deadline for new applicants is March 15, 1996.



Fritz and Dolores Russ
Engineering Center

Bits & PCs
College of Engineering and
Computer Science
Wright State University

Dean

James E. Brandeberry, Ph.D., P.E.

Editor and Staff Writer

Karil S. This

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.



AND THE WINNER IS...

The following events were held in conjunction with National Engineers Week and were sponsored by the Wright Engineering Council Student Activities Board. Special thanks to everyone who helped and participated in these events.

Egg Drop Contest

There were 12 participants in this Fifth Annual Egg Drop Contest. First place winner was the team of Joaquin Romera and Seamus Sullivan, second place honors went to Eric Moyer, and third place went to Alex Coffey.

The efforts of Ryan Owens, Gregg Hawes, Scott Baugh, and Jeff Gardner in coordinating this event are greatly appreciated.



SCAVENGER HUNT

There were four teams competing in the Fourth Annual Scavenger Hunt. The winning team consisted of John Stewart, Jeff Aiken, Erik Martin, and Dave Hanna. These industrious individuals located 77 of the 100 items on the "Scavenge List" including Harley Flack's WSU ID!

A big "Thank You" goes out to Joe Jessup for coordinating this adventurous test of ingenuity and resourcefulness.

E-Lympics

Thanks to Steve Poelzing for engineering the 1996 E-Lympics competition. Winners in this event were:

Team First consisting of:
Ryan Owens
Seamus Sullivan
and Mike Van Horn

Team Second consisting of:
Matt Freyhoff
Jeff Gardner
and NN Schneider

Team Third consisting of:
Jamey Teafor
Matt Stack
and a mystery student.

BLOODFEST '96

The final event in celebration of National Engineers Week was Bloodfest '96. The winners of this virtual combat competition were:

First Place - Mike Myers
Second Place - Greg Donahue
Third Place - Steve Poelzing
Fourth Place - Adam Habig

Seamus Sullivan, Mike Myers, Jason Evans, Andrew Nuckols, Randall Knick, and Steve Poelzing teamed up to coordinate this event and their effort are sincerely appreciated.

Congratulations

*Jeff Gardner
and
Jamey Teafor*

Recipients of 1996/97 OAI Scholarships!

Teams Winners



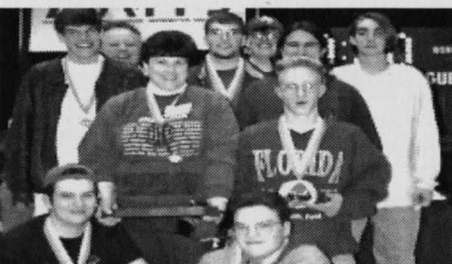
First Place, Small Category
Franklin Monroe High School



First Place, Medium Category
Arcanum High School



First Place, Large Category
Tipp City High School



First Place, X-Large Category
Middletown High School



First Place, XX-Large Category
Centerville High School (A Team)

Trusses Tougher Than Tester

The annual Bridge Building Competition held in conjunction with the JETS/TEAMS Competition produced some unprecedented results this year. Three trusses surpassed the limits of the machine used to measure their strength.

A Tensile/Compression Load Frame donated by MTS/Sintech is used to measure the load bearing capacity of the trusses. This



WINNERS

First Place
Chuck Butler
Miami Valley CTC

Second Place
Amanda Witt
Miami Valley CTC

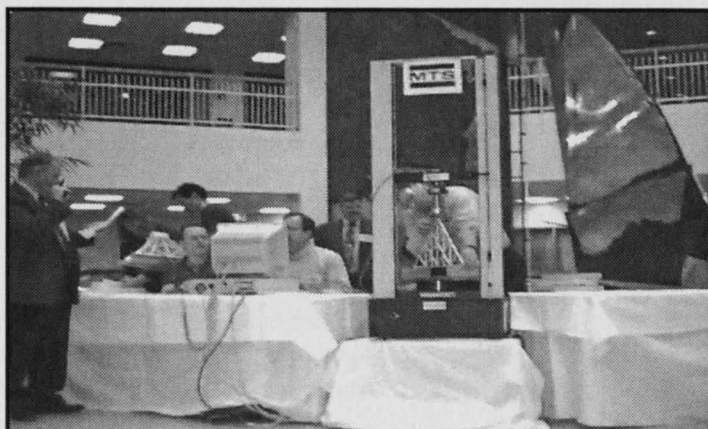
Third Place
Bonny Thomas
Miami Valley CTC

Fourth Place
Thad Fark
Jackson Center H.S.

Fifth Place
Jamie Workman and
Amanda Williams
Miami Valley CTC



machine has the capacity to apply 2,000 pounds of pressure to the trusses. This is the first year that anyone has been able to "max out" the machine. The fact that three contestants were able to do so may indicate that the contest rules need to be modified.





The annual G.A.T.R. was held again this year in celebration of National Engineers Week. The turnout was somewhat sparse, however—let's try to do better next year.

Once again, prizes were awarded to individuals standing in mystery "Hot Spots" on each floor. National Engineers Week T-shirts went to Rebecca Arthungal, Amy Schmackers, and Ethan Fraser; Matt Stack, Mike Coyle, Euvondia Barto received mugs; while Goran Petrovski, Steve Poelzing, and Brett Keaffaber got mouse pads.

Our method for designating the mystery hot spots has been decoded, so we are working on a way to keep you guessing next year!

Ty D. Upp says.

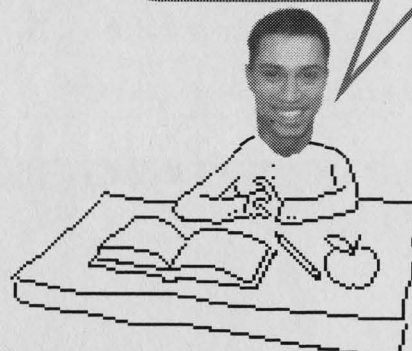
Please use the erasers provided to clean the dry erase boards—not your hands. If you use your hand and then touch the walls, it leaves unsightly marks on the walls.

Also, your hands will leave oily residue on the white board which builds up on the surface and eventually impedes writing.

Thank you Steve Poelzing, Wright Engineering Council, for being the voice of Ty D. Upp.

We invite faculty, staff and students to sit at Ty D. Upp's desk and offer comments and suggestions for the occupants of the Russ Engineering Center. Contact kthis@delta.cs.wright.edu or stop by the Office of the Dean, 405 Russ Engineering Center if you'd like to speak for Ty D. Upp.

Please use the erasers provided to clean the dry erase boards—*not* your hands.



Lester and Delilah Buechler Scholarship



Lester and Delilah Buechler are donating an endowed scholarship in their name to the College of Engineering and Computer Science. Lester and his wife, Delilah, founded the Ohio Electronic Engravers Company in 1978 with Lester managing the company and Delilah handling administration and accounting.

Ohio Electronic Engravers was vastly successful becoming a \$6,000,000 operation with a 50 percent per year growth rate in only 8 years. Its products were widely marketed both in the U.S. and internationally.

The Buechler's sold the company in 1987, but Lester continues to serve as Chairman of the Board and assists in the areas of engineering and customer contact. Lester Buechler is a

Professional Engineer; recipient of the Navy Meritorious Service Award; Senior Life Member of IEEE; member of the "Cylinder Society) of the Honorary Gravure Association Group for Outstanding Contribution to Gravure; holder of 15 U.S. patents; recipient of the 1992 Dayton Area Technology Network Achievement Award for Ohio Electronic Engravers and the 1996 Outstanding Engineers and Scientists Award from The Affiliate Societies Council.

The Lester and Delilah Buechler Scholarship will be a \$2,500 per year award which is renewable. Applications are now being accepted through the Office of Financial Aid. Eligible candidates are limited to students entering their junior or senior year and majoring in either electrical

engineering, computer engineering, or mechanical engineering with a g.p.a. of 3.25 or higher. Preference will be given to students who are participating or have participated in Wright State's Engineering Leadership Institute or students who have demonstrated an interest in entrepreneurship.

Applicants must submit a written statement of goals and accomplishment and a statement of how they plan to utilize their degree after graduation.

Interested students should contact:

Judy Rose
Scholarship Coordinator
Office of Financial Aid
3136 Student Union
513-873-5721.

WRIGHT STATE UNIVERSITY
College of Engineering and Computer Science
Teaching Effectiveness Award
1995-1996
Student Response Form

The Teaching Awards Committee is collecting recommendations for effective teaching in the College of Engineering and Computer Science. These forms are being gathered from faculty, students, and alumni. May we have your nomination and supporting comments for the full-time faculty member who is the most effective teacher? You may nominate more than one faculty member by submitting additional nomination forms. Please do not nominate a faculty member more than once.

Nomination: _____

Please comment on the effectiveness of this teacher both in and out of the classroom, including how he/she made a difference to you.

Signature: _____ Date: _____

Please deposit completed nomination form in the ballot box located in 405 RC, 163 RC, 152 RC, or the Atrium of the Russ Engineering Center.

DEADLINE FOR SUBMISSION OF NOMINATIONS IS MARCH 15, 1996.

Wright State University
College of Engineering and Computer Science
Listing of Faculty Eligible for Nomination

**College of Engineering and
Computer Science**

Brandeberry, James E., Dean
Finkelstein, Leo

**Department of Biomedical and
Human Factors Engineering**

Cacioppo, Anthony J., Chair
Gallimore, Jennie
Hangartner, Thomas N.
He, Ping
Narayanan, S.
Phillips, Chandler A.
Reynolds, David B.
Rowley, Blair A.

**Department of Computer Science
and Engineering**

AsthaGiri, Chandra
Awwal, A.A.S.
Bergstein, Paul
Chen, Jer-Sen
Chen, Philip
Chung, Soon Myoung
d'Auriol, Brian
Daniel, Johns
Fernando, Joseph
Garcia, Oscar N., Chair
Goshtasby, A. Ardeshir
Jean, Jack
Mateti, Prabhaker
Meyer, Karen
Prasad, T.K.
Rizki, Mateen
Ross, Charles B.
Shock, Robert C.
Spiegel, Daniel
Sudkamp, Thomas A. *

Department of Electrical Engineering

Chen, Henry
Garber, Fred
Hong, Lang
Kazimierczuk, Marian K. *
McCormick, William S.
Misra, Pradeep
Naishadham, Krishna
Pujara, Rai
Rattan, Kuldip
Shaw, Arnab K.
Shenoi, Belle
Siferd, Raymond, Chair
Spalding, George R.
Xue, Kefu

**Department of Mechanical
and Materials Engineering**

Bethke, Richard, Chair
Cornelius, Kenneth
Dadras, Parviz
Grandhi, Ramana (currently on sabbatical)
Hong, Shane Y.
Lieh, Junghsen
Lipsitt, Harry
Mehrotra, Gopal
Slater, Joseph
Srinivasan, Raghavan
Thomas, J.F., Jr.
Thomas, Scott
Weiss, Isaac
Wolff, Mitch

* Members of the Teaching Award Committee
are not eligible to be nominated.

EMPLOYMENT OPPORTUNITIES

NCR is looking for graduate or fourth-year undergraduate computer science majors to work in the Technology Research Group. Positions can be either full-time summer internships or continuous part-time.

Successful candidates will be conducting library research, internet searches, and possibly be involved in visual basic programming. Applicants must be computer (Windows) literate with experience in Microsoft Word, PowerPoint, Excel, or equivalent.

Interested individuals should contact Ed Scott at NCR, 445-3715.

The SOCHE Student Support Program has positions available at Wright Patterson Air Force Base Materials Lab. Positions are available in the areas of Advanced Materials Analysis, Mechanics of Damage Accumulation in Aerospace Alloys and Metal Matrix Composites, and Mechanical Testing of Space Coating Materials. All positions offer challenging research, flexible work schedule, and a professional setting.

Potential candidates should be U.S. Citizens, sophomore through graduate students, and seeking degrees in chemical, materials, or mechanical engineering. Interested individuals should contact Career Services, 126 Student Services, 873-2556.

Chemical Abstracts Service, Columbus, Ohio has a full-time position available in analyzing, abstracting, and indexing scientific literature and providing up-to-date information services to scientists around the world. A background in engineering or materials science with an emphasis on optical materials, devices, and phenomena as well as spectroscopic theory and techniques is desired.

CAS offers competitive salaries; generous vacation allowances; and a benefit package that includes comprehensive health, dental, and vision care insurance; an employer-paid retirement plan, and a savings program.

Send résumés to:

**Chemical Abstracts Service
Human Resources Department
P. O. Box 3012
Columbus, Ohio 43210
FAX: 614-447-3816
E-mail: dmoody@cas.org**

Kay & Associates, Clearwater, Florida can put electrical and mechanical engineering graduates interested in microprocessor controlled mechanisms in touch with innovative manufacturing companies nation wide.

These employers are willing to pay relocation and agency fees for individuals interested in designing small, reliable microprocessor controlled mechanisms.

Send résumés to:

**Dan Shorey
Kay & Associates
3171 Hyde Park Drive
Clearwater, FL 34621
FAX: 813-7866-4554**

WSU Career Services would like to remind students to register with them at the earliest opportunity. Most companies recruiting engineering and computer science graduates will visit campus during Fall Quarter. In order to be informed of these visits and to submit résumés for consideration, you must register with Career Services by June 1, 1996.

In addition, you might want to consider registering for LA 401, Implementing Career Decisions, during Spring Quarter 1996. This seminar-style class will address job search techniques for engineering, computer science, and business majors. Representatives from the Dayton corporate community will make presentations on:

- Using the Internet to Find a Job
- Locating Hidden Job Markets
- Surviving the First Year on the Job
- Professional Imaging
- Global Impact on U.S. Employment

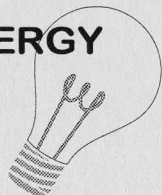
among other topics. If you have questions regarding LA 401 contact Reva Cosby, Assistant Director, Career Services, 873-2556.

Wright Patterson Air Force Base ASC/CD is looking for individuals to fill several entry-level engineering positions. These positions are four-year appointments and there is no guarantee of continuation.

Interested individuals should contact the WSU Office of Career Services or the Wright Patterson Air Force Base employment office for more information or application details.

CONSERVE ENERGY

Turn off the juice
when not in use!



ATTENTION HIGH SCHOOL STUDENTS

Visit the Russ Engineering Center A Best Kept Secret in Ohio Education!

The \$20 million **Fritz and Dolores Russ Engineering Center** located on the campus of Wright State University opened in 1992 and features state-of-the-art laboratory and teaching facilities for the College of Engineering and Computer Science.

◆ **Egg Drop Contest for Junior High Schools:** Friday, May 3, 1996 at 4:00 P.M.

Registration flyers will be sent to the schools.

◆ **National Engineering Aptitude Search + (NEAS +)**

March 13, April 24, May 13 – Time: 9–11 A.M.

Guidance-oriented self-assessment survey to help students in grades 9 through 12 determine their aptitude for engineering, math, or science study in college.

Pre-registration fee of \$5 required.

◆ **Shadow Program**

Spend a day on campus with an engineering or computer science student.

This program will be in effect from January 2 through May 18, 1996.

Call Dick Rathbun, Assistant Dean, 513/873-5001 for more information or a personal tour of the Russ Engineering Center.



**Wright State
University**

College of Engineering and
Computer Science

3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001

Office of the Dean